

**Application:** Sludge Cap

**Customer:** Department of Energy, Piketon, Ohio

**Product:** Installation of Sludge Cap

### THE PROBLEM

From 1956 to 1957, chromium was added to the cooling water as a corrosion inhibitor and discharged into the three waste water lagoons. The resulting sludge had a shear strength of 200 to 500 psf at depths greater than 2 feet and was too weak to be measured with a dilatometer at less than 2 feet.

### THE DESIGN

Installation of approximately 100,000 square yards of high strength woven geotextile for reinforcement prior to capping the three lagoons. Flint elected to use Flintex 4.6 to support the cap and utilized a 2 two-row double "J" seam.

### THE TEAM

As the General Contractor, IT Corporation selected Flint Industries to supply and install the high strength woven geotextile.

### THE RESULT

After the backfill was accomplished, the site was planted in upland wetland species native to the area.

**OWNER**  
Department of Energy

**CONTRACTOR**  
IT Corporation

**MANUFACTURER**  
Carthage Mills

**INSTALLER**  
Flint Industries

